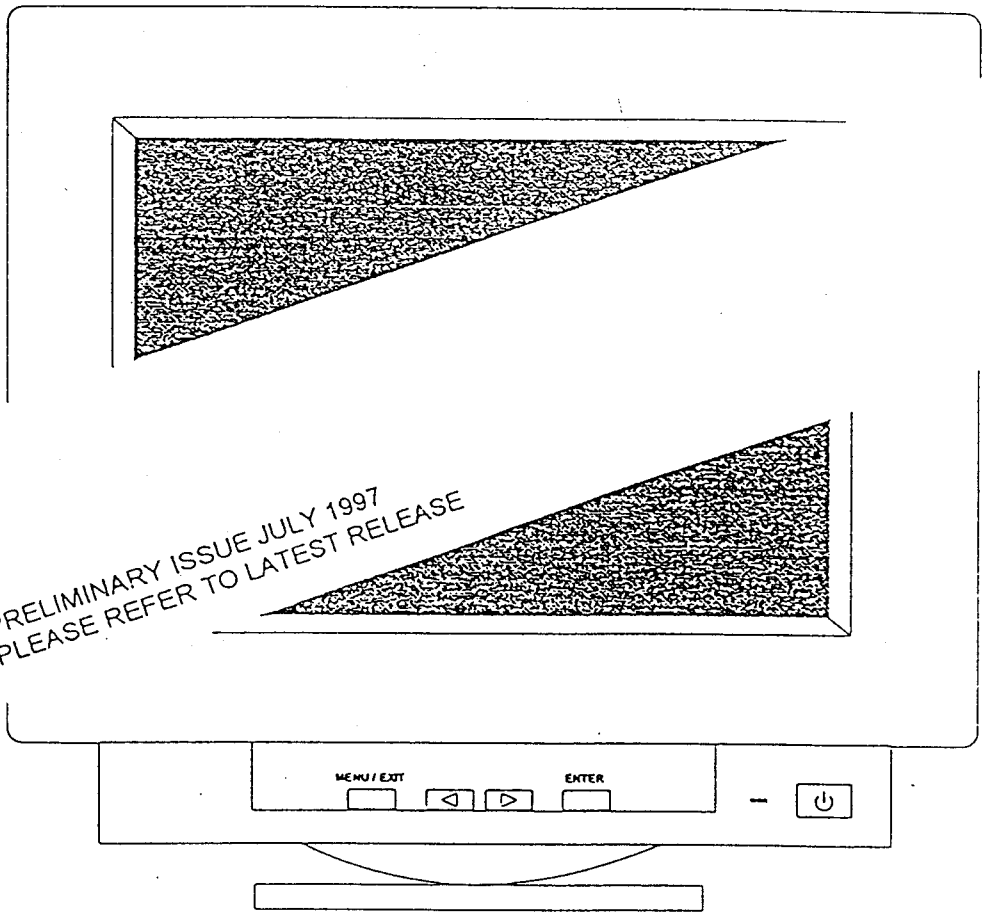
MS 1995P

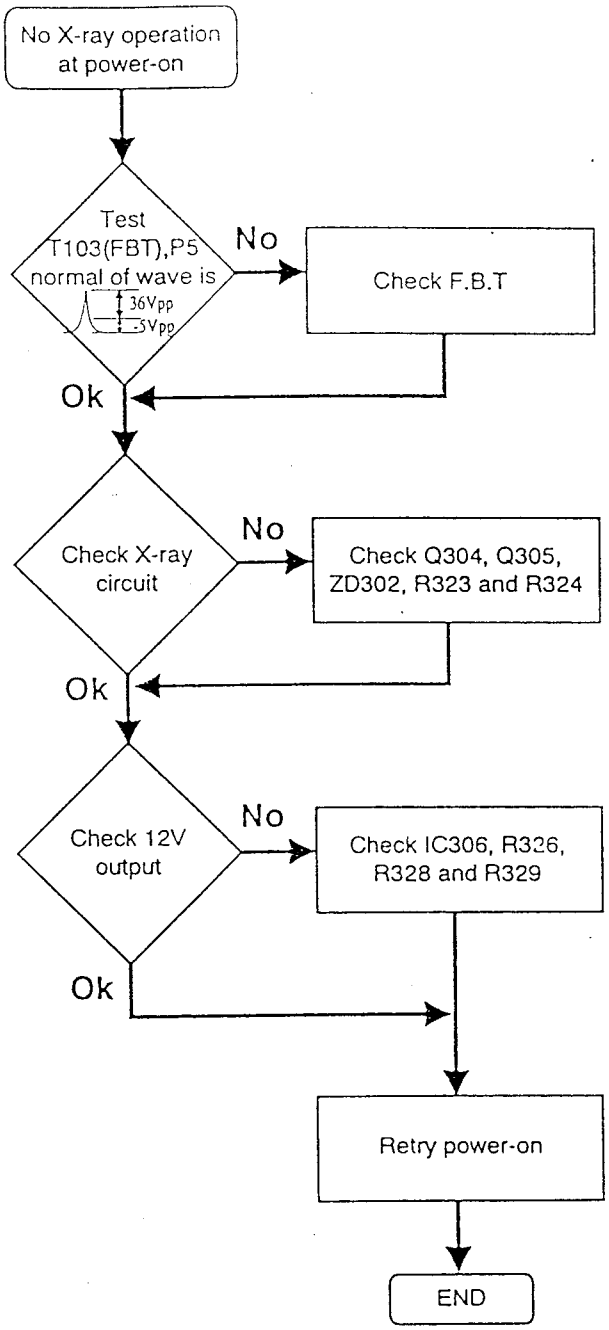
Color Computer Display Service Manual



PRELIMINARY ISSUE JULY 1997
PLEASE REFER TO LATEST RELEASE

[redacted]

5.2. No X-ray Operation



Section 5.
Troubleshooting

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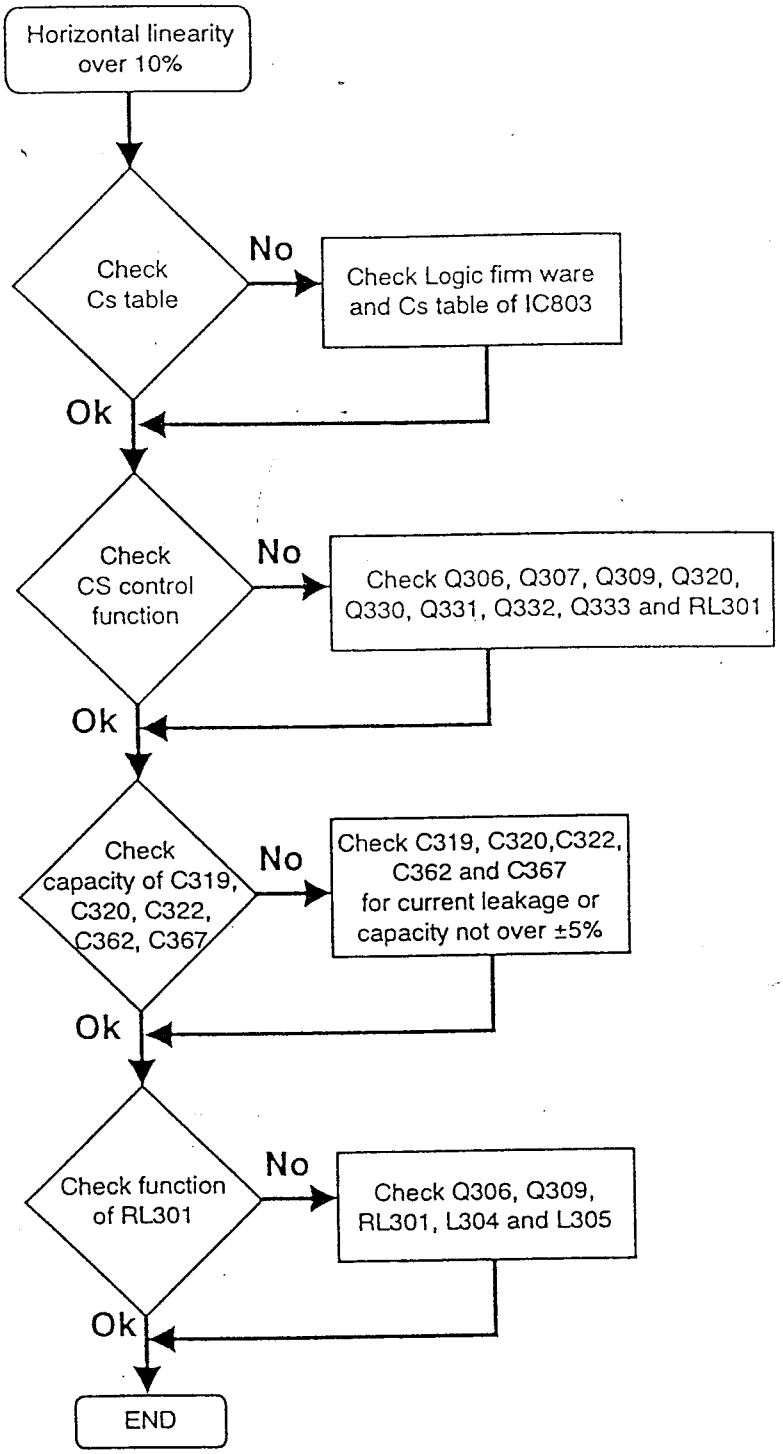
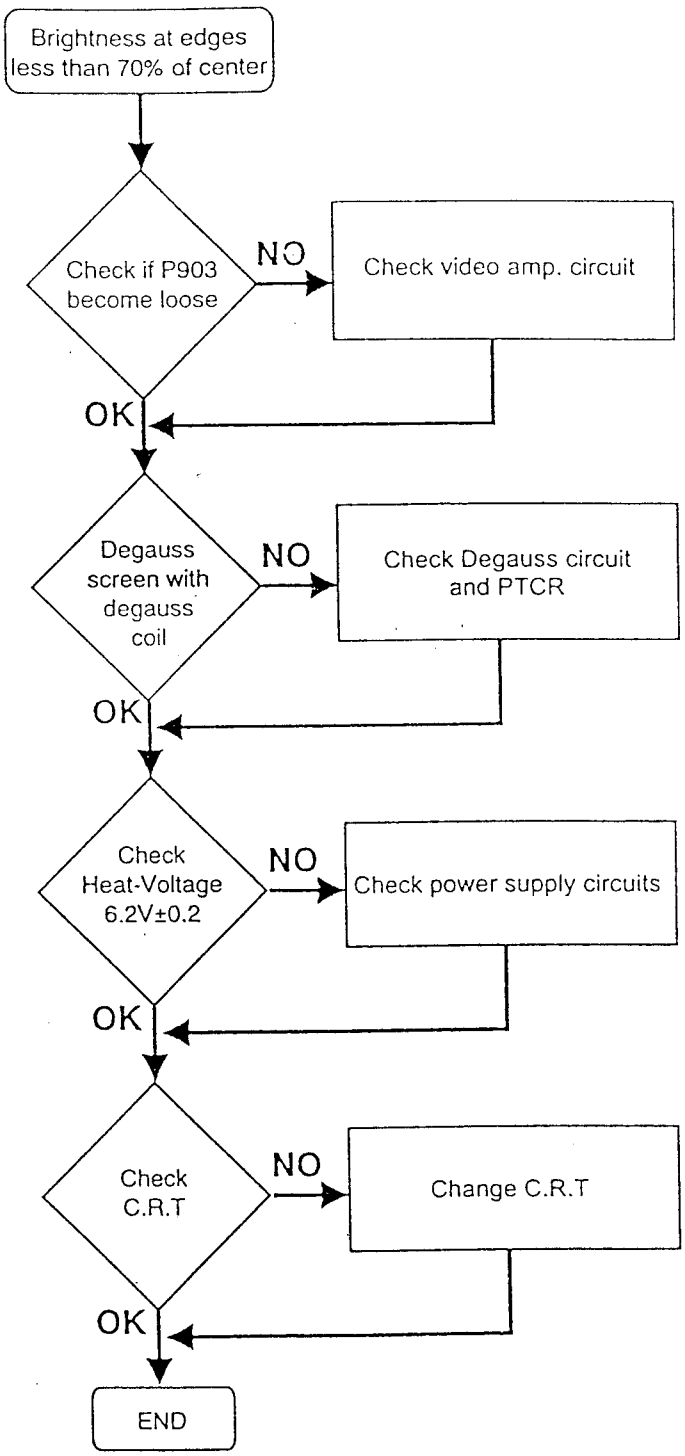
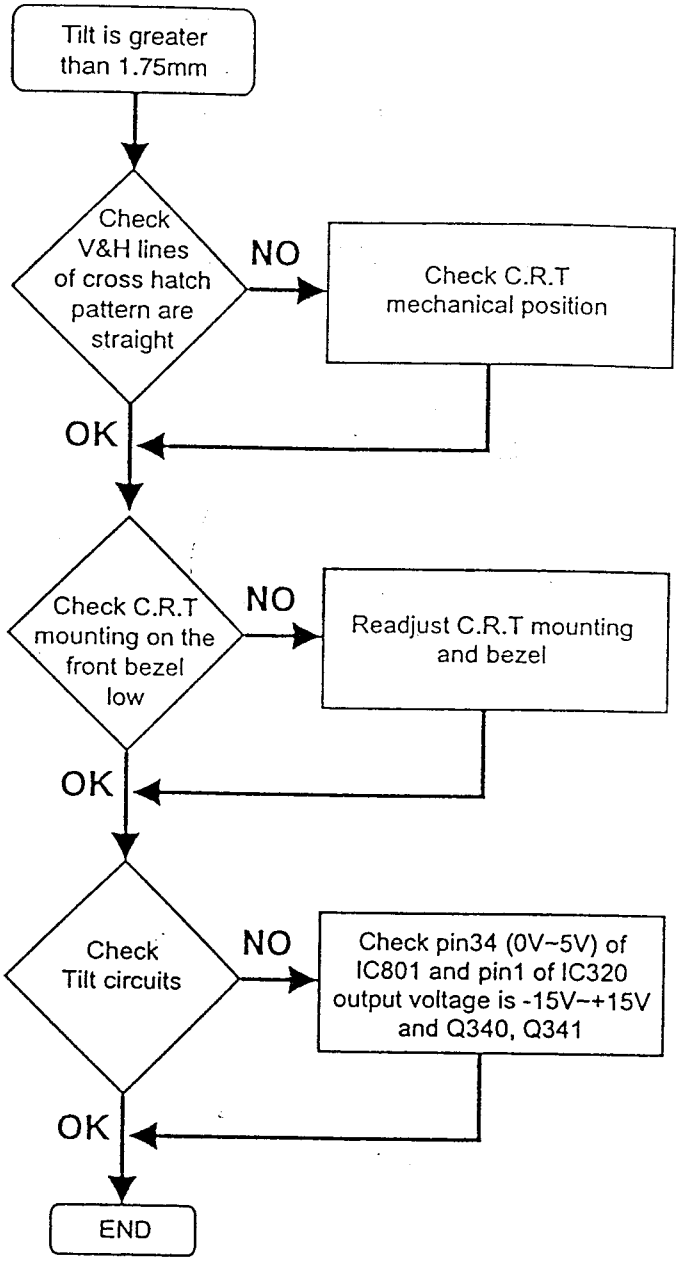
5.5. Poor Horizontal Linearity


Horizontal linearity over 10%
Check Cs table
No
Check Logic firm ware and Cs table of IC803
Ok
Check CS control function
No
Check Q306, Q307, Q309, Q320, Q330, Q331, Q332, Q333 and RL301
Ok
Check capacity of C319, C320, C322, C362, C367
No
Check C319, C320,C322, C362 and C367 for current leakage or capacity not over ±5%
Ok
Check function of RL301
No
Check Q306, Q309, RL301, L304 and L305
Ok
END

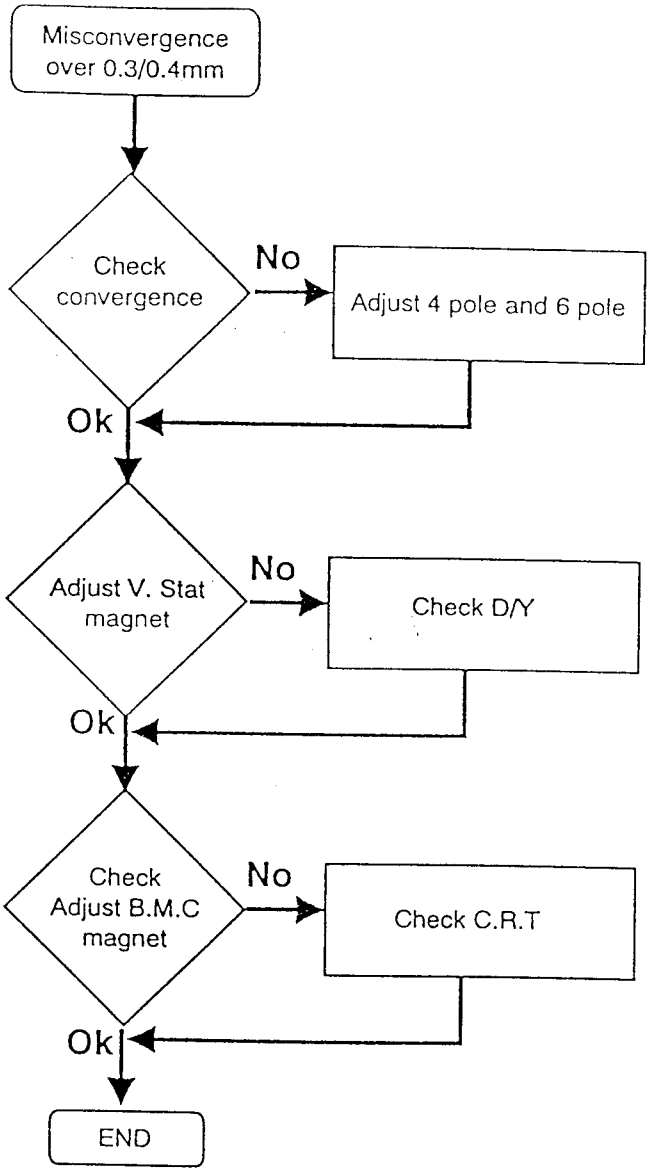
5.6. Poor Uniformity



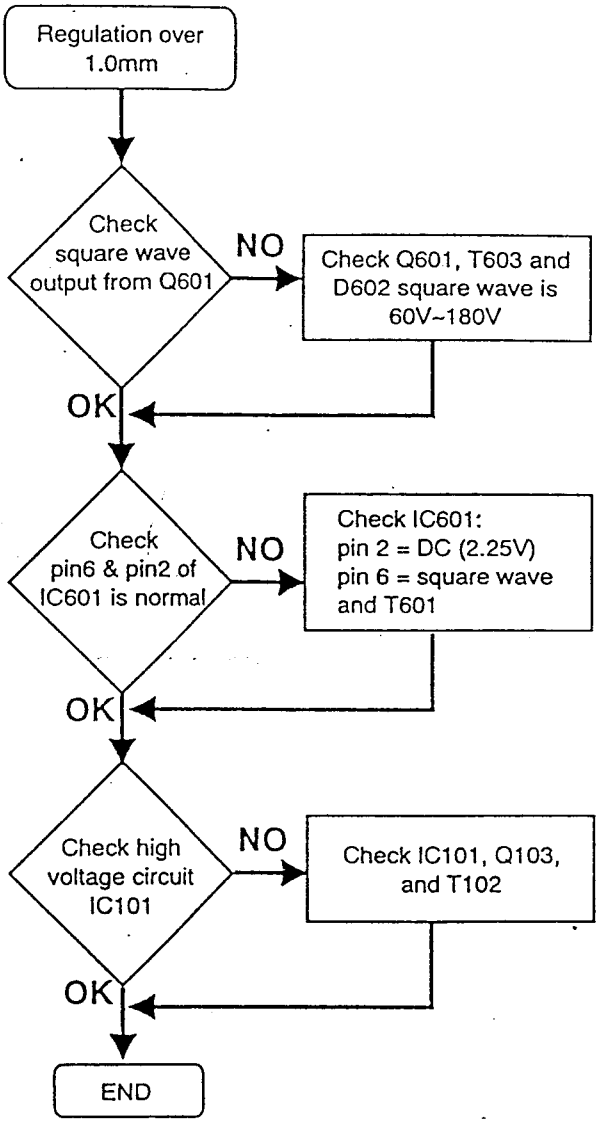
5.7. Tilted Display Area


Tilt is greater than 1.75mm
Check V&H lines of cross hatch pattern are straight
NO
Check C.R.T mechanical position
OK
Check C.R.T mounting on the front bezel low
NO
Readjust C.R.T mounting and bezel
OK
Check Tilt circuits
NO
Check pin34 (0V~5V) of IC801 and pin1 of IC320 output voltage is -15V~+15V and Q340, Q341
OK
END

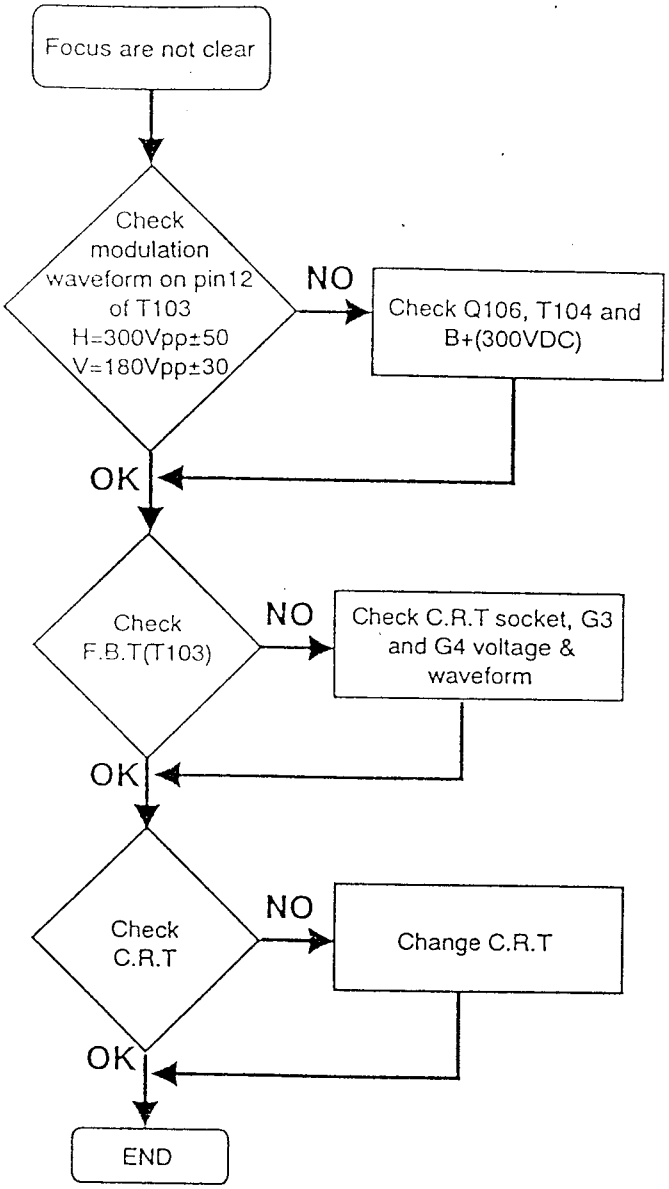
5.8. Misconvergence



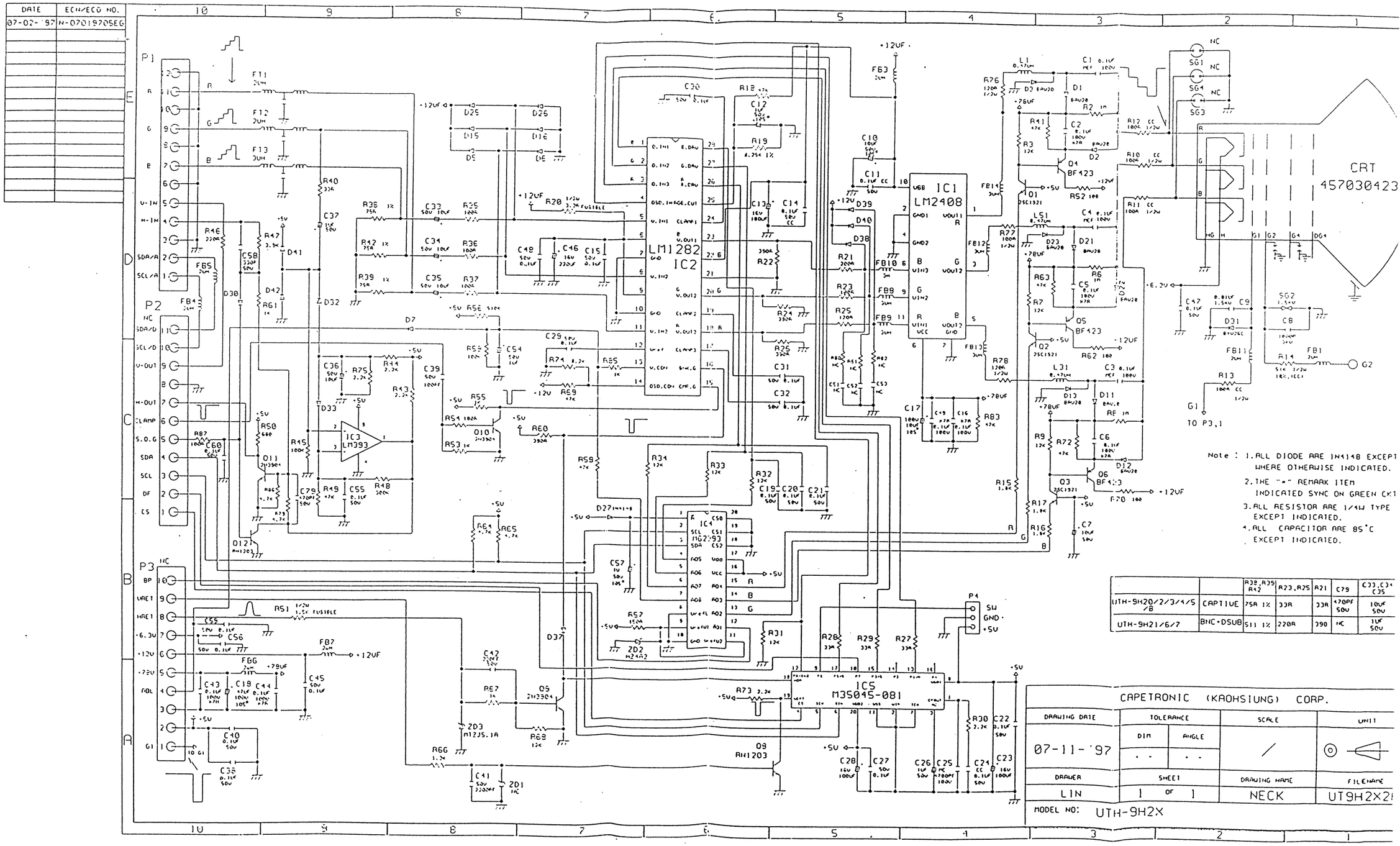
5.9. Poor Regulation


Regulation over 1.0mm
Check square wave output from Q601
NO
Check Q601, T603 and D602 square wave is 60V~180V
OK
Check pin6 & pin2 of IC601 is normal
NO
Check IC601: pin 2 = DC (2.25V) pin 6 = square wave and T601
OK
Check high voltage circuit IC101
NO
Check IC101, Q103, and T102
OK
END

5.10. Poor Focus



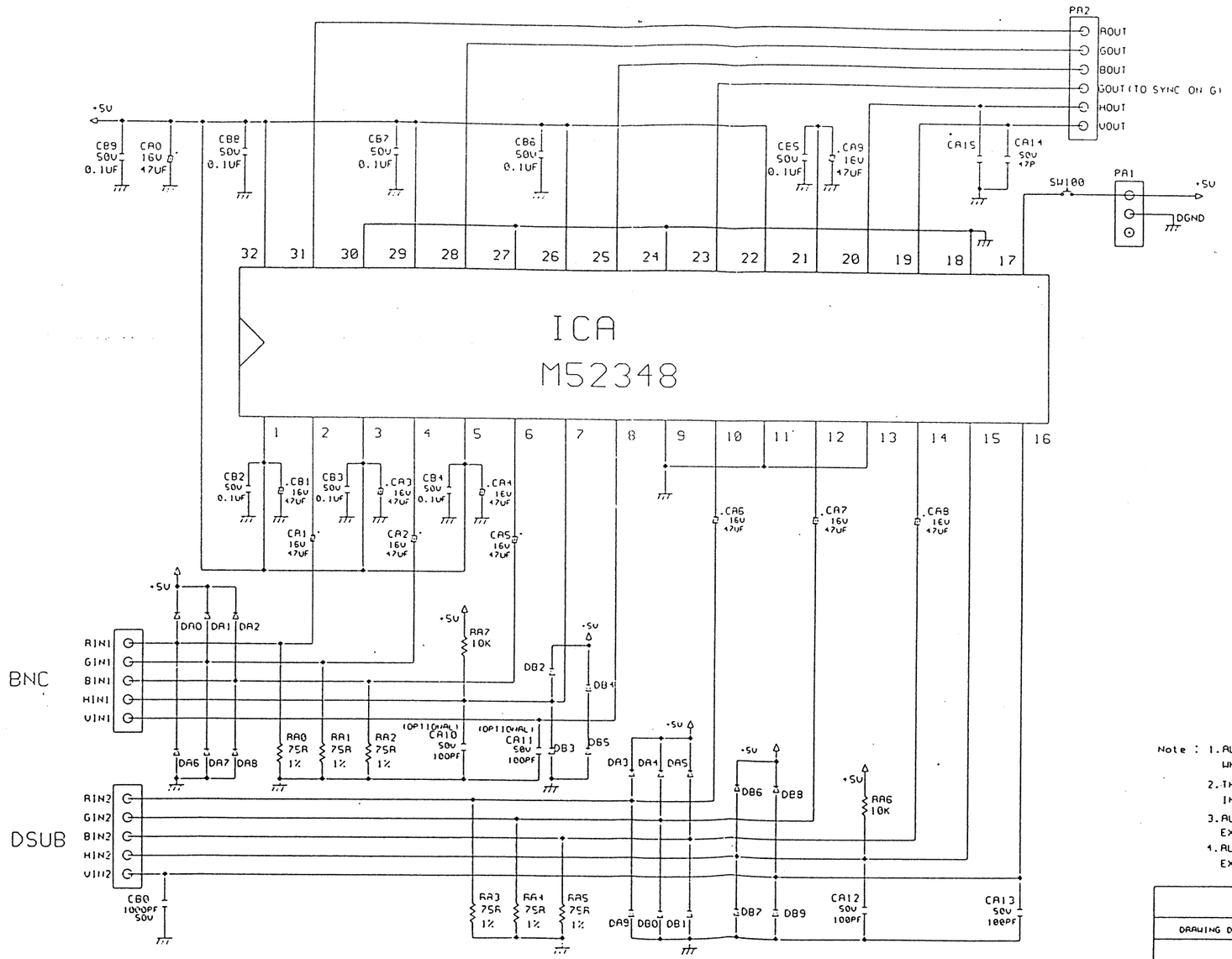
DATE	ECN/ECO NO.
07-02-'97	N-07019705EG



		R38,R39 R42	R23,R25	R21	C79	C33,C34 C35
UTH-9H20/2/3/4/5/8	CAPTIVE	75R 1%	33R	33R	470PF 50V	10UF 50V
UTH-9H21/6/7	BNC+DSUB	511 1%	220R	390	NC	1UF 50V

CAPETRONIC (KAOHSIUNG) CORP.				
DRAWING DATE	TOLERANCE		SCALE	UNIT
	DIM	ANGLE		
07-11-'97	. .	. .	/	
DRAWER	SHEET		DRAWING NAME	FILENAME
LIN	1 OF 1		NECK	UT9H2X2
MODEL NO: UTH-9H2X				

DATE	ECN/ECO NO.
07-02-'97	N-0701970SEG



Note : 1. ALL DIODE ARE IN4148 EXCEPT WHERE OTHERWISE INDICATED.
2. THE "*" REMARK ITEM INDICATED SYNC ON GREEN CKT.
3. ALL RESISTOR ARE 1/4W TYPE EXCEPT INDICATED.
4. ALL CAPACITOR ARE 85°C EXCEPT INDICATED.

CAPETRONIC (KAOHSIUNG) CORP.				
DRAWING DATE	TOLERANCE		SCALE	UNIT
	DIM	ANGLE		
7-14-'97	. .	. .	/	⊙ mm
DRAWER	SHEET		DRAWING NAME	FILENAME
LIN	1 OF 1		BNC	UT9H2X8A
MODEL NO: UTH-9H2X				

TO VIDEO

	NORMAL ON	STAND-BY H-OFF/30	MODEL CHANGE	POWER ON
PMG1	Hi	Hi	Hi	Hi
PMG3	Lo	Hi	Lo	
BLK	Lo	Hi	1.8sec	1.8sec
MUTE	Lo	Hi	1.8sec	1.9sec

P303 12PIN CONN & WIRE ASS'Y

SDA\E
SCL\E
CS/O
SCL/I
SDA/I

IC801 MC68HC705B07P

V-MOIRE
H-PHASE
V-POSITION
H-SIZE_F-V
H-SIZE
V-SIZE
TILT
H-DRIVE-F/V
EHT
PIN-CUSHION
TRAP
PIN-BALANCE
PARALELOGRAM
SCL\E
SDA\E
LATCH
DEGAUSSING
BLANK
PMG1
PMG3
CS4
CS1
CS2
CS3
MUTING
SDA\O
CLK\O
CS\O
I_SDA
I_SCL
DECR
INCR
/VPP
HS
VS

IC803 74HC374

AN801 4.7k COMMON7P
AN802 R-NET 4.7K COMMON9P
AN803 R-NET 4.7K COMMON7P

PW33 (STAND BY)

P804 WAFER 10PINA
P805 WAFER 10PINA
CONN & WIRE ASSY

(MUTE) AUDIO FED MUTE
LT6453-23
LED1: Orange / Green
CONTRAST SW1
BRIGHTNESS SW2
SELECT SW3
DEG/REC SW4
D801 1N4148 DEG/REC "Key"
D802 1N4148 DEG/REC "Key"

W/D816 is w/well Key model.
W/O D816 is T/switch 4 key.

CONTROL PANEL S/N DEPEND ON CUSTOMER

IC302 LM1295

IC301

IC320 LM358

Q340 2SD669
Q341 2SB647

IC201 TDA8172

Q201 2SC945
Q202 2SC945
Q203 2SC945
Q204 2SC945
Q205 2SC945
Q206 2SC945
Q207 2SC1203

D201 1N4148
D202 1N4001
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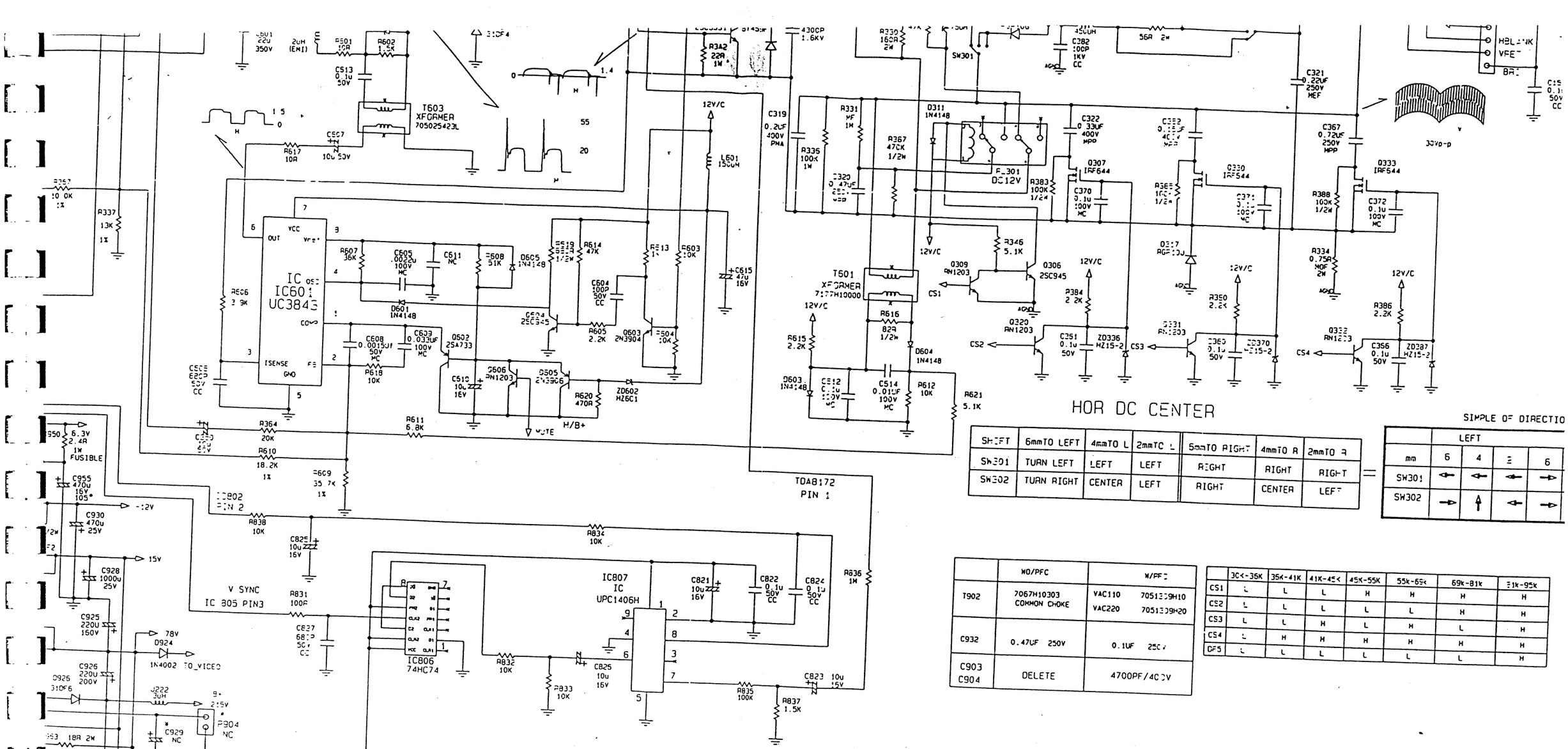

SHIFT	6mmTO LEFT	4mmTO L	2mmTO L	5mmTO RIGHT	4mmTO R	2mmTO R
SW301	TURN LEFT	LEFT	LEFT	RIGHT	RIGHT	RIGHT
SW302	TURN RIGHT	CENTER	LEFT	RIGHT	CENTER	LEFT

	LEFT			
mm	6	4	2	6
SW301	←	←	←	→
SW302	→	↑	←	→

	W/O PFC	W/PFC
T902	7067H10303 COMMON CHOKE	VAC110 7051E09H10 VAC220 7051E09H20
C932	0.47UF 250V	0.1UF 250V
C903 C904	DELETE	4700PF/400V

	30<-35K	35K-41K	41K-45K	45K-55K	55K-65K	69K-81K	81K-95K
CS1	L	L	L	H	H	H	H
CS2	L	L	L	L	L	H	H
CS3	L	L	H	L	H	L	H
CS4	L	H	H	H	H	H	H
DF5	L	L	L	L	L	L	H

	CAPETRONIC (KAOHSIUNG) CORP		
DRAWING DATE	TOLERANCE	SCALE	
07-23-'97	DIM ANGLE	/	
DRAWER	SHEET	DRAWING NAME	FILE
LO	1 OF 1	ALL IN ONE	UTS
MODLE NO.	UTH.VTH-9H2X		

CONTRAST SW01
BRIGHTNESS SW02
SELECT SW03
DEG/REC SW04
D801 1N4148
D802 1N4148
DEG/REC
P804 WAFER 10PINA
P805 WAFER 10PINA
CONN & WIRE ASSY
W/D816 is Shell Key model.
W/O D816 is T/switch 4 Key.
CONTROL PANEL S/N DEPEND ON CUSTOMER
SCL/I
SDA/I
R820 100K
R819 100K
C813 39P 50V
C812 39P 50V
FB802 JUMP
C809
R810 4.7K
D805 1N4148
D807 1N4148
D808 1N4148
PB02 4PINA
SCL/E
SDA/E
FB801 2UH (EMI)
FB803 2UH (EMI)
R811 100R
C810 2200P 50V
C811 2200P 50V
R809 4.7K
IC804 (NC)
IC24C21
VCC
VCLK
SCL
SDA
/TEST
NC
/WP
VSS
C814 0.1U 50V
R813 1K
R822 750R
R821 1K
ZD802 HZ5C1
C808 0.1U 50V
IC802
24LC16
R820 4.7K
R812 4.7K
R611 4.7K
R359 220R
C369 0.1U 50V
R3C1 NC
C344 .0047u 100V MEF
D313 NC
C342 0.0022U 100V MC
R350 15K
R361 5.6K
C340 1U 50V.
C337 0.022U 100V MC
R359 12V/D 1W
AGND
C343 0.1U 100V MC
R310 330R
C353 0.1u 100V
C351 560P 50V CC
R325 10K
D327 1N4148
R335 1K
R366 10K
R367 10.0K 1%
C347 10u 16V
R337 13K 1%
IC301
LM1292
FVC CAP2
CLAMP CTRL
CLAMP PULSE
VIDEO MUTE
F-MAX
F-MIN
VCC
V-SYNC IN
COMP VIDEO IN
H/HV SYNC/O
H/HV CAP
H/HV SYNC/I
H/HV POL/O H DR OUT CTRL
H-DR EN
C341 10U 16V
R352 4.7K
R363 100K
R352 NC
R339 15K
R365 NC
C349 0.47u 63V MEF
R301 15.8K 1%
4.7K R384
R302 27.4K 1%
C302 2200U 16V
C205 1u 50V
C223 330P 50V CC
R365 100R
D301 1N4148
12V/C
R383 6.8K
C304 1u 50V
C345 0.1u 100V MC
C352 0.1u 100V MC
R306 030: 2K RN1202
R385 3.3K
R386 1.91K MF
C368 0.1u 50V
R385 10K MF
12V/B
CS2
F901 4AH 250V
SW901
P902
T902 7167M10303
COMMON CHOKE
BC901 FBU4K
P901 LINE FILTER
R959 5.6M 1/2W
R956 820K 1/2W
C932 0.47U 250Vac (EMI)
C902 0.22u 250Vac (EMI)
C901 2200P 400VAC (EMI)
R901 10R
C916 2200P 400VAC (EMI)
C904 4700pF 250V (EMI)
C903 4700pF 250V (EMI)
C905 0.01U 400VAC
CE25 0.33U 400VAC
15V
R955 62R
RL901 JW2FHS
DC12V RELAY
D922 1N4148
R958 1K
DEG
Q915 2SC945
C931 0.1u 50V
PTCR 14R
P903 TO DEGAUSSING
R902 0.33R 1W
C907 330U 400V
R903 36K 2W
R904 36K 2W
D928 1N4001
R978 10K
C943 47U 25V
L901 33uH PEAKING
D907 BYV26C
FB906 3uH
R953 51R 1/2W
C942 1000PF 1KV
PF4
C945 1000P 1KV (EMI) CC
R960 51R
R950 6.3V 2.4R 1W FUSIBLE
D906 BYV26C
R906 2K 7W
R905 10K 5W
C908 0.1u C-MEF 400V
FB909 3uH
D905 BYV260
C909 330P 1KV
D903 FE1D
D923 1N4001
Q901 2SD669A
C910 100U 35V
C952 47u 35V
R907 24K 1/2W
ZD901 HZ18-2
C911 220U 100V
FB910 3uH
D925 NC (FOR USB)
FB901 2UH (EMI)
T903 7050102H20
POWER TRANSFORMER
R957 1.5M
R964 1.5M
R916 1.8K
R914 0.33R 2W
R977 5.6M
C914 1000P 50V CC
R915 2.4K
ZD902 HZ18-2
R932 220R
FB902 2UH (EMI)
FB903 2UH (EMI)
Q902 FS10KM
R909 2.7K
C945 1000P 1KV (EMI) CC
R960 51R
FB910 3uH
D919 310F1
D920 310F2
C944
R961 51R 1/2W (EMI)
FB908 3uH
D918 310F2
C939
R962 51R 1W
D915 310F4
D916 310F4
FB911 3uH
D925 D926 310F6 310F6
R963 18R 2
Q906 TIP122
R938 1K
R943 47K
D921 1N4001
D931 1N4148
ZD904 HZ12A1
C943 3.3UF 50V
IC902 7805
C923 470U 25V
R934 470R
R935 360
C920 330P 50V
PH901 3N35
IC903 LM431
C936 3300P 50V (CC)
R920 1K
COM
R910 18R
C912 1N4665
R911 39R
IC901 UC3842A
Vcc
Vref
OUT
OSC
COMP
Isense
FB
GND
R912 5.76K
R931 100R
C918 0.1u 50V
R930 10K
R929 15K
D910 1N4148
ZD903 HZ20-2
Q904 2SB561
Q903 MCR100-6
R933 100R
R928 13K
C917 330U 16V
R927 10K
C912 0.01u 100V (PP) 2%
D909 1N4148
R921 5.1K
R922 5.1K
FROM FBT/SYNC
D913 1N4148
D914 1N4148
R925 130R
R926 5.1K
R924 200R
C915 1u 50V
R923 24R
R918 15K
R973 20K
D911 1N4148
D930 110G03
C913 220P 50V
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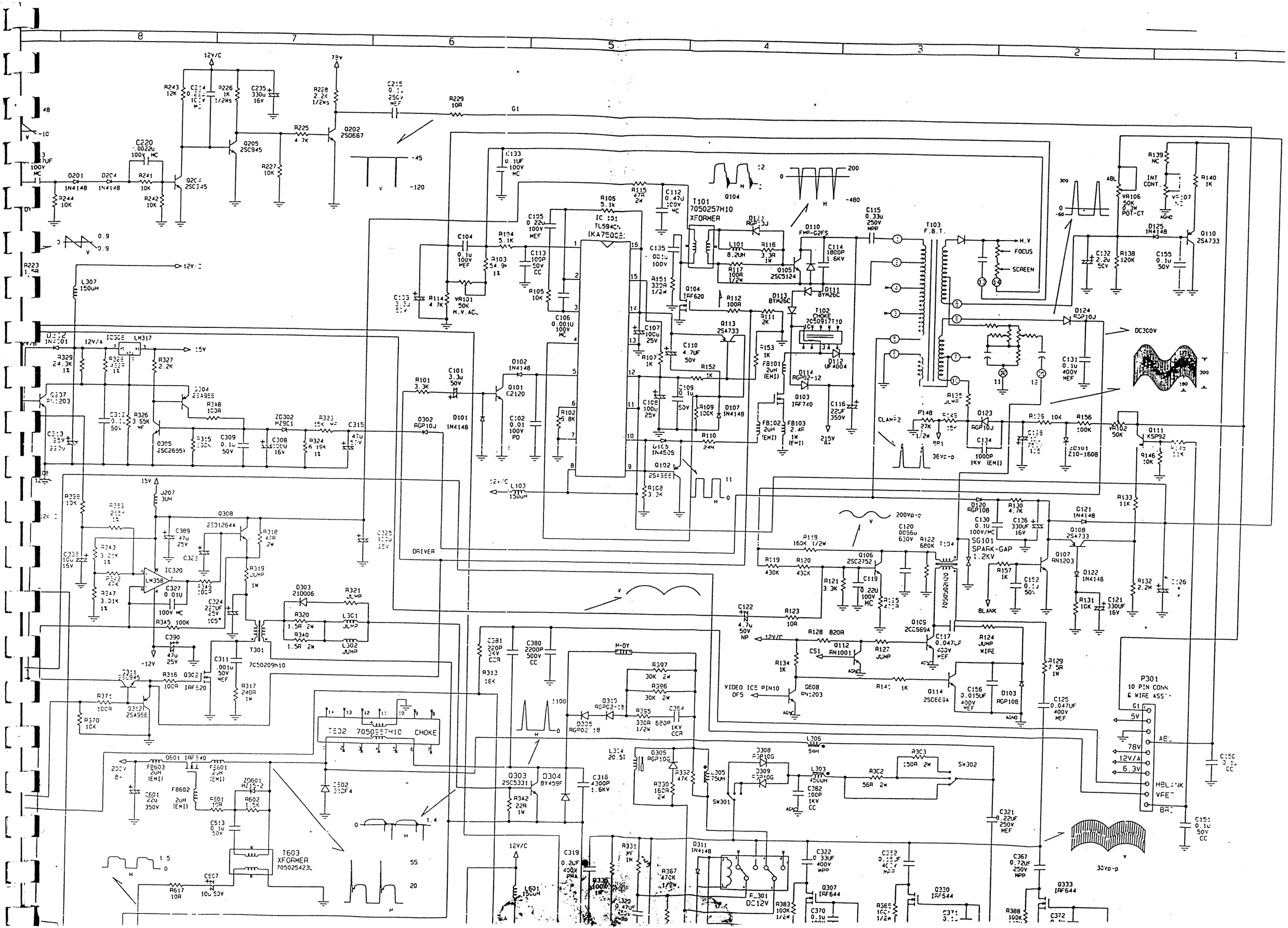
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DRIVER
SG101
SPARK-GAP
1.2KV
T101
7050257H10
XFORMER
T103
F.B.T.
T301
7C50209h10
T603
XFORMER
7050257423L
T602
7050257410
CHOKE
T102
C40WE
7C50917T10
IC320
LM358
IC301
TL594CN
(KA7500B)
IC302
LM317
P301
10 PIN CONN
& WIRE ASS'Y
H.V
FOCUS
SCREEN
DC300V
78V
12V/A
6.3V
5V
BLANK
VIDEO ICE PIN10
DF5
CLAMP2
SPARK-GAP
1.2KV
12V/C
-12V
15V
200Vp-p
30Vp-p
F_301
DC12V